

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P843055

Luminaire Tested: **24CZ2-40HE-HRP-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-40HE-HRP-UNV-B35
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

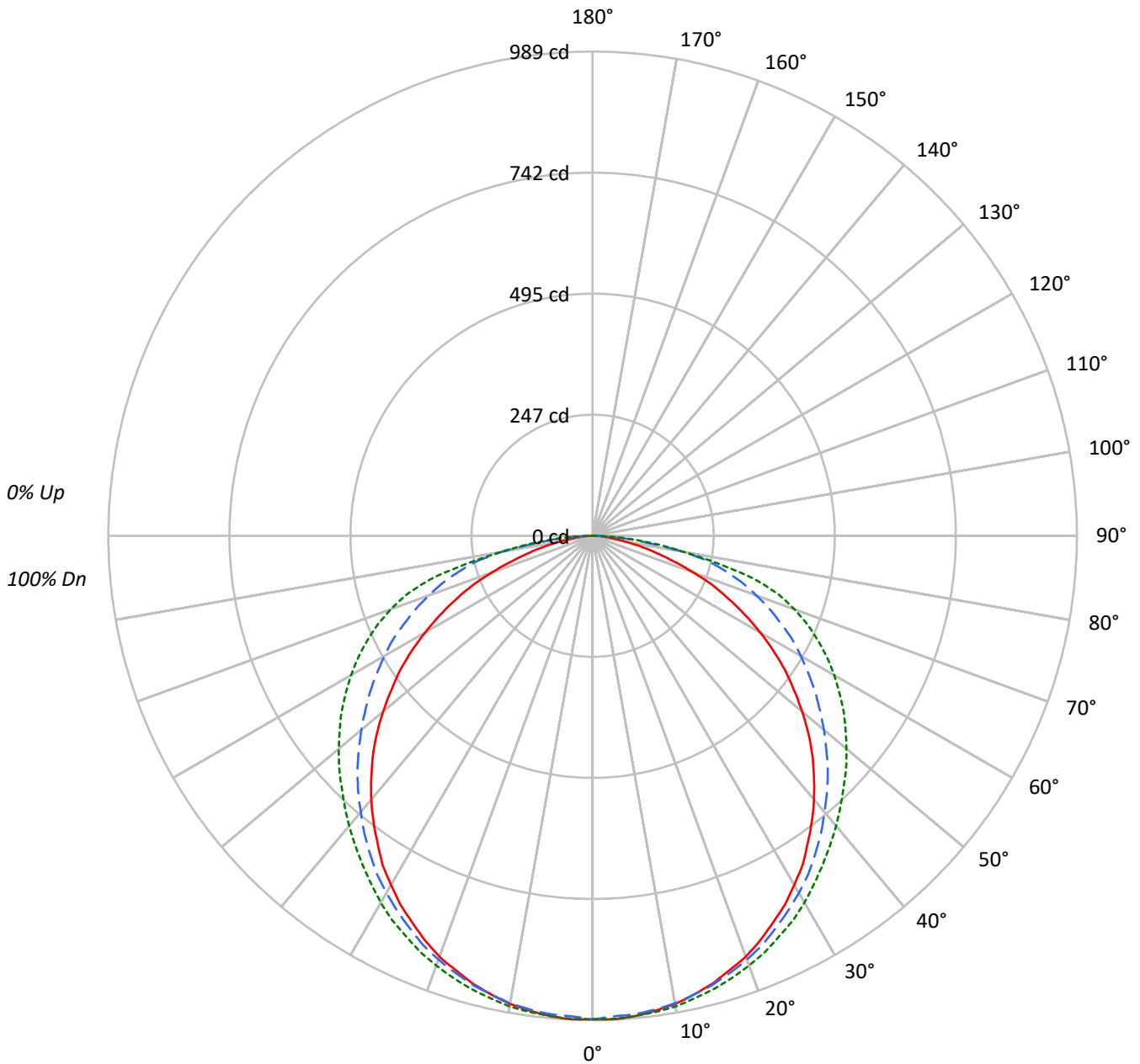
Lumens per Lamp: N/A
Luminaire Lumens: 3044.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 29
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P843055

CATALOG NUMBER: 24CZ2-40HE-HRP-UNV-B35

Luminous Intensity Polar Plot





TEST NUMBER: P843055

CATALOG NUMBER: 24CZ2-40HE-HRP-UNV-B35

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1394	1394	1394
5°	1396	1390	1396
10°	1392	1390	1399
15°	1383	1387	1400
20°	1374	1384	1403
25°	1357	1377	1405
30°	1342	1373	1410
35°	1320	1366	1412
40°	1296	1357	1425
45°	1267	1356	1447
50°	1226	1354	1486
55°	1182	1364	1540
60°	1115	1385	1608
65°	1030	1417	1698
70°	900	1467	1809
75°	730	1543	1869
80°	538	1513	1513
85°	413	1116	1258



TEST NUMBER: P843055

CATALOG NUMBER: 24CZ2-40HE-HRP-UNV-B35

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	3.1
10°-20°	268.7	8.8
20°-30°	409.0	13.4
30°-40°	496.6	16.3
40°-50°	524.7	17.2
50°-60°	495.1	16.3
60°-70°	411.7	13.5
70°-80°	270.8	8.9
80°-90°	73.8	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	771.2	25.3
0°-40°	1267.9	41.7
0°-60°	2287.6	75.2
0°-90°	3044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	985	985	981	985	985	94
15°	947	948	949	958	958	267
25°	872	877	884	900	902	402
35°	766	775	793	813	819	479
45°	635	647	679	712	725	489
55°	480	501	554	607	626	428
65°	308	344	424	487	508	305
75°	134	195	283	335	343	144
85°	26	56	69	76	78	31
90°	0	0	0	0	0	



TEST NUMBER: P843055

CATALOG NUMBER: 24CZ2-40HE-HRP-UNV-B35

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	987.7	987.7	987.7	987.7	987.7
2.5°	988.9	987.7	982.5	987.7	987.7
5°	985.1	985.1	981.2	985.1	985.1
7.5°	978.7	978.7	976.2	981.2	981.2
10°	971.1	971.1	969.7	976.2	976.2
12.5°	959.6	960.9	959.6	967.2	967.2
15°	946.8	948.1	949.4	958.4	958.4
17.5°	930.3	932.8	935.3	945.6	946.8
20°	915.0	916.3	921.3	932.8	934.1
22.5°	894.5	898.5	904.8	916.3	920.1
25°	871.7	876.7	884.4	899.7	902.2
27.5°	849.9	853.9	864.0	880.5	885.7
30°	823.3	829.6	842.4	858.9	865.2
32.5°	797.8	804.1	819.4	837.3	842.4
35°	765.9	774.8	792.7	813.0	819.4
37.5°	735.4	744.2	765.9	788.8	796.5
40°	703.4	713.6	736.6	763.4	773.5
42.5°	669.0	683.0	708.6	737.9	749.4
45°	634.6	647.4	679.2	712.3	725.1
47.5°	597.6	612.9	647.4	686.8	702.1
50°	558.2	577.3	616.8	660.2	676.7
52.5°	518.7	540.2	584.8	633.4	651.2
55°	480.4	500.8	554.3	606.6	625.7
57.5°	438.4	463.8	522.4	578.5	597.6
60°	395.1	423.2	490.6	549.2	569.6
62.5°	351.8	383.6	460.0	518.7	540.2
65°	308.4	344.0	424.4	486.8	508.4
67.5°	266.3	305.9	391.2	453.7	475.3
70°	218.0	267.6	355.5	416.7	438.4
72.5°	173.4	230.7	321.2	378.6	397.6
75°	133.8	194.9	282.9	335.2	342.8
77.5°	98.2	159.3	243.3	261.3	262.6
80°	66.2	127.5	186.1	183.4	186.1
82.5°	43.3	95.5	117.3	131.3	132.5
85°	25.5	56.1	68.9	76.4	77.7
87.5°	12.8	19.1	24.3	25.5	28.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)